

**GENERAL POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE  
UNITED STATES PATENT AND TRADEMARK OFFICE**

I hereby appoint:

☒ Practitioners associated with the Customer Number

**22850**

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

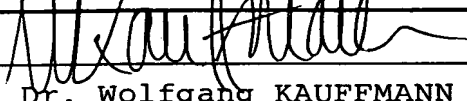
Assignee Name and Address:

Sony Deutschland GmbH  
Kemperplatz 1  
10785 Berlin  
GERMANY

A statement under 37 CFR 3.73(b) is attached.

**SIGNATURE OF ASSIGNEE OF RECORD**

(The individual whose signature and title is supplied below is authorized to act on behalf of the assignee)

|           |   |                  |
|-----------|---|------------------|
| Signature |  | Date: 15/02/2006 |
| Name      | Dr. Wolfgang KAUFFMANN  | Telephone:       |
| Title     | Manager   |                  |

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Vladimir NIKOLAJEVIC

Application No./Patent No.: 10/544,166

Filed/Issue Date: July 29, 2005

Entitled: DIRECTIVITY OPTIMIZATION FOR SHORT-RANGE WIRELESS MOBILE COMMUNICATION SYSTEMS

SONY DEUTSCHLAND GMBH

(Name of Assignee)

, a corporation

(Type of Assignee, e.g., corporation, partnership, government agency, etc.)

States that it is:

1. ☒ the assignee of the entire right, title, and interest; or

2. ☐ an assignee of less than the entire right, title and interest.

The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of an assignment from the inventor(s) of the patent application/patent identified above. The assignment was previously recorded or is being recorded concurrently herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Corwin Paul Umbach

Signature

**Corwin P. Umbach, Ph.D.**  
**Registration No. 40,211**

October 16, 2006

Date

Bradley D. Lytle

Printed or Typed Name

703-413-3000

Telephone Number

40,073

Registration Number

**ASSIGNMENT**

**WHEREAS**, I, as below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

**DIRECTIVITY OPTIMIZATION FOR SHORT-RANGE WIRELESS MOBILE COMMUNICATION SYSTEMS**

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

**AND WHEREAS**, SONY DEUTSCHLAND GMBH, a German Corporation, with offices at Hugo-Eckener-Str. 20, 50829 Köln, Germany (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

**NOW THEREFORE**, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: International Serial Number: PCT/EP2005/007626, International Filing Date: July 13, 2005.

This assignment executed on the dates indicated below.

**Vladimir NIKOLAJEVIC**

Name of sole or 1st inventor

Execution date of U.S. Patent Application

**Stuttgart, Germany**

Residence of sole or 1st inventor

*Bogdan H. H. H. H. H.*

Signature of sole or 1st inventor

*29.8.2005*

Date of this assignment

**Masahiro UNO**

Name of 2nd joint inventor

Execution date of U.S. Patent Application

**Fellbach, Germany**

Residence of 2nd joint inventor

*Masahiro Uno*

Signature of 2nd joint inventor

*29 August*

Date of this assignment